

CLAIM AMENDMENTS

1. (Currently Amended) A controlled debris perforating system, comprising:
a ~~pre-fragmented~~ shaped charge having a charge case and an explosive material,
the charge case defining at least one slot about which the charge case is adapted to
fracture.
2. (Canceled)
3. (Previously Amended) The controlled debris perforating system of claim 1,
wherein the at least one slot is axially oriented.
4. (Previously Amended) The controlled debris perforating system of claim 1,
wherein the at least one slot is circumferentially oriented.
5. (Previously Amended) The controlled debris perforating system of claim 1,
wherein the at least one slot is a U-notched groove.
6. (Previously Amended) The controlled debris perforating system of claim 1,
wherein the at least one slot is a V-notched groove.
7. (Previously Amended) The controlled debris perforating system of claim 1,
wherein the at least one slot is an external slot.
8. (Previously Amended) The controlled debris perforating system of claim 1,
wherein the at least one slot is an internal slot.
9. (Currently Amended) A method of controlling the debris during perforating,
comprising:
providing a ~~pre-fragmented~~ shaped charge having a charge case defining a
plurality of grooves about which the charge case is adapted to fracture.
10. (Original) The method of claim 9, wherein the plurality of grooves are axially
oriented.

11. (Original) The method of claim 9, wherein the plurality of grooves are circumferentially oriented.

12. (Previously Amended) A shaped charge made by a process, comprising:
inserting an explosive into a case;
inserting a liner over the main body of explosive; and
machining a plurality of slots in the case about which the case is adapted to fracture.

13. (Original) The shaped charge made by the process of claim 12, wherein the plurality of slots are U-notched grooves.

14. (Original) The shaped charge made by the process of claim 12, wherein the plurality of slots are V-notched grooves.

15. (Original) The shaped charge made by the process of claim 12, wherein the plurality of slots are machined externally.

16. (Original) The shaped charge made by the process of claim 12, wherein the plurality of slots are machined internally.

17. (Currently Amended) A method of using one or more ~~pre-fragmented~~ shaped charges in a well, comprising:
providing a perforating string having one or more ~~pre-fragmented~~ shaped charges, the ~~pre-fragmented~~ shaped charges comprising a charge case defining at least one slot about which the charge case is adapted to fracture; and
conveying the perforating string into the well.

18. (Original) The method of claim 17, wherein the perforating string comprises a loading tube and carrier.

19. (Original) The method of claim 17, wherein the perforating string comprises a spiral gun.

20. (Original) The method of claim 17, wherein the perforating string comprises a strip gun.

21. (New) The controlled debris perforating system of claim 1, wherein the case comprises a plurality of slots about which the case is adapted to fracture.

22. (New) The controlled debris perforating system of claim 1, wherein the case comprises an opening to receive the explosive material and the opening is separate from said at least one slot.

23. (New) The controlled debris perforating system of claim 1, wherein said at least one slot comprises at least one groove formed in a wall of the case.

24. (New) The controlled debris perforating system of claim 23, wherein said at least one groove comprises a plurality of grooves.

25. (New) The controlled debris perforating system of claim 23, wherein said at least one groove is cut into the wall of the case.

26. (New) The method of claim 17, wherein the case comprises a plurality of slots about which the case is adapted to fracture.

27. (New) The method of claim 17, wherein the case comprises an opening to receive an explosive material and the opening is separate from said at least one slot.

28. (New) The method of claim 17, wherein said at least one slot comprises at least one groove formed in a wall of the case.

29. (New) The method of claim 28, wherein said at least one groove comprises a plurality of grooves.

30. (New) The method of claim 28, wherein said at least one groove is cut into the wall of the case.
